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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Based on 09/678,656
				Filing Date	October 4, 2000
				First Named Inventor	Toshimitsu KONUMA
				Group Art Unit	2871
				Examiner Name	Huyen Le Ngo
Sheet	1	of	3	Attorney Docket Number	0756-7221

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
HN		4,239,345		Berberman et al.	12/16/80	
		4,272,162		Togashi et al.	06/09/81	
		5,258,135		Uchida et al.	11/02/93	
		5,637,672		Rieger et al.	06/10/97	
		5,462,621		Ishii	10/31/95	
		5,298,297		Takei	03/29/94	
		5,250,214		Kanemoto et al.	10/15/93	
		5,189,535		Mochizuki et al.	02/23/93	
		5,172,255		Brosig et al.	12/15/92	
		4,508,427		Ross	04/02/85	
		5,005,952		Clark et al.	04/09/91	
		5,495,355		Konuma	02/27/96	
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		Office ³	Number ⁴	Kind Code ⁵ (if known)			
HN		JP	03-158823	✓		07/08/91	Full
		JP	63-298220	✓		12/06/88	Abst.
		JP	56-164320	✓		12/17/81	Abst.
		JP	03-031821	✓		02/12/91	Abst.
		JP	01-204025	✓		08/16/89	Abst.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
HN		Matumoto et al., "New Hybrid-Aligned Nematic Multicolor Liquid-Crystal Display," Oyo Buturi, Vol. 45, No. 1, pp. 853-856, 1976.	

Examiner Signature		Date Considered	4/16/04
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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		Number	Kind Code ² (if known)			
HN ↓		4,965,017		Holmes et al.	10/23/90	
		5,013,137		Tsuboyama et al.	05/07/91	
		5,064,697		Takiguchi et al.	11/12/91	
		5,172,187		Brosig	12/15/92	
		5,194,973		Isogai et al.	03/16/93	
		5,250,214		Kanemoto et al.	10/05/93	
		5,200,238		McArdle et al.	04/06/93	
		4,596,446		Waters et al.	06/24/86	

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HN		JP	52-063746	✓		05/26/77	Full
		JP	64-004721	✓		01/09/89	Abst.
		JP	63-228125	✓		09/22/88	Abst.
		JP	64-055537	✓		03/02/89	Abst.
		JP	64-059325	✓		03/07/89	Abst.
		JP	64-059326	✓		03/07/89	Abst.
		JP	64-059322	✓		03/07/89	Abst.
		JP	64-059324	✓		03/07/89	Abst.
		JP	64-059323	✓		03/07/89	Abst.
		JP	64-059328	✓		03/07/89	Abst.
		JP	64-059327	✓		03/07/89	Abst.
		JP	04-149516	✓		05/22/92	Abst.
		JP	02-287317	✓		11/27/90	Abst.
		JP	06-018887	✓		01/28/94	Abst.
HN		EP	0 376 030	✓		12/1988	
		JP	3-276122	✓		12/06/91	Full
		JP	52-037249	✓		03/23/77	Full

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		JP	64-091172			04/10/89		Full
		JP	2-118517			05/02/90		Full
		JP	04-140714			05/14/92		Abst.
		JP	51-037249			03/29/76		Abst.
		JP	03-031821			02/12/91		Full
		JP	02-287317			11/27/90		Full
HN		JP	05-158045	✓		06/25/93		Abst.
HN		JP	04-355726	✓		12/09/92		Abst.

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		M. Nishikawa et al., "Alignment Layers for Active Matrix LCD," The Technical Report of the Proceedings of the Institute of Electronics, Information and Communication Engineers, Vol. 91, No. 467, pp. 13-18, February 13, 1992.	

Examiner Signature		Date Considered	4/4/64
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